

产品名称: CD4 Rabbit Polyclonal Antibody
产品货号: APRab08389



产品概述 (Summary)

产品名称 (Production Name)	CD4 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CD4
别名 (Alternative Names)	CD4; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3; CD antigen CD4
基因 ID (Gene ID)	920.0
蛋白 ID (SwissProt ID)	P01730.The antiserum was produced against synthesized peptide derived from human CD4. AA range:401-450

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:100-1:300,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	51kDa

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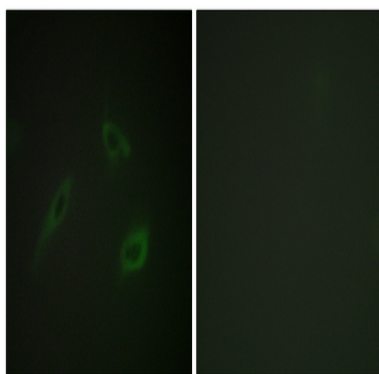
研究背景 (Background)

This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene. [provided by RefSeq, Aug 2010], function: Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts, miscellaneous: Primary receptor for HIV-1, online information: CD4 entry, PTM: Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts, similarity: Contains 1 Ig-like V-type (immunoglobulin-like) domain, similarity: Contains 3 Ig-like C2-type (immunoglobulin-like) domains, subcellular location: Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope glycoprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum, subunit: Associates with LCK. Binds to HIV-1 gp120 and to P4HB/PDI and upon HIV-1 binding to the cell membrane, is part of P4HB/PDI-CD4-CXCR4-gp120 complex. Interacts with HIV-1 Envelope glycoprotein gp160 and protein Vpu. Interacts with Human Herpes virus 7 capsid proteins,

研究领域 (Research Area)

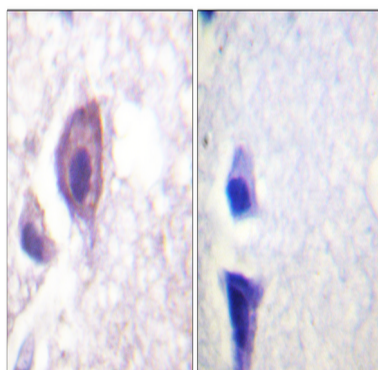
Cell adhesion molecules (CAMs); Antigen processing and presentation; Hematopoietic cell lineage; T_Cell_Receptor; Primary immunodeficiency;

图片 (Image Data)

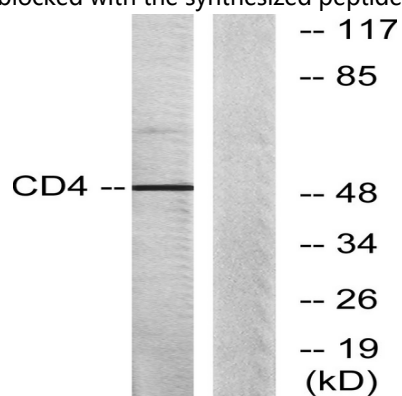


Immunofluorescence analysis of HeLa cells, using CD4 Antibody. The picture on the right is blocked with the synthesized peptide.

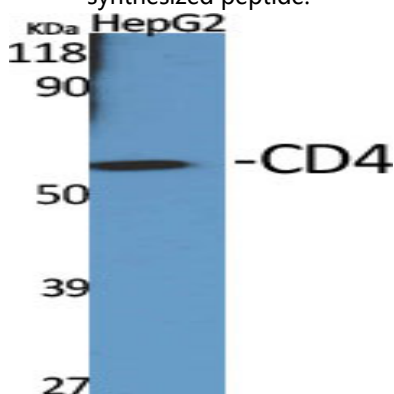
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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using CD4 Antibody. The picture on the right is blocked with the synthesized peptide.

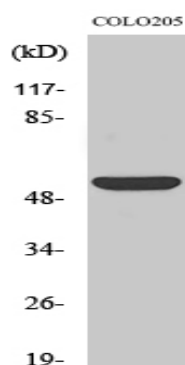


Western blot analysis of lysates from COLO205 cells, using CD4 Antibody. The lane on the right is blocked with the synthesized peptide.

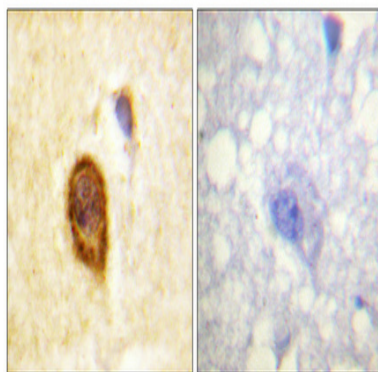


Western Blot analysis of various cells using CD4 Polyclonal Antibody diluted at 1: 500

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Western Blot analysis of COLO205 cells using CD4 Polyclonal Antibody diluted at 1: 500



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

注意事项 (Note)

For research use only .